

Light-line systems

Selection guide – Light-line systems

Luminaire family	Page	Lan	Lamps		Lamps Reflectors		ectors	Wiring		
		Fluore	escent							
		TL5	TL-D	Steel	Aluminum	5-wire	7-wire	9-wire		
		# #=	=E_\=			mm ²	mm ²	mm ²		
Maxos										
A A A A A A A A A A A A A A A A A A A	8.4	•	•	•	•	•	•			
TTX400										
	8.32	•	•	•	•	•	•	•		
Tetrix TTX150										
	8.64	•	٠	•		•	•			

Selection guide – Light-line systems

Luminaire family		Wiring		Protection	Emergency	Lighting	Dynamic lighting option
					lighting	control	(color mixing)
	2x5 wire mm ²	2x7 wire mm ²	Bus bar (flexible positioning)	IP class			
Maxos							
	•	•	•	IP64 IP63	•	•	•
				IP40			
				IP20			
TTX400							
				IP20	•	•	
Tetrix TTX I 50							
				IP20	•		



Maxos – the multifunctional performer, in proper style

Maxos has been designed on the basis of in-depth knowledge of end-user needs in the retail business and industry. It also offers solutions for schools, offices and public spaces. Maxos' durable quality and electrical flexibility, combined with a wide selection of reflectors and accessories, ensure well-designed, cost-effective lighting solutions with minimum energy consumption.

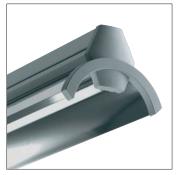
Maxos is designed for fast installation and is available in TL-D and TL5 versions, in the colors silver and white, and with IP20 and IP64 protection. The possibility of integrating projectors and the flexibility in positioning electrical units make it the ideal system for retail outlets.

www.philips.com/lighting

Facetted reflector with D6-louver



Aluminum reflector TL5

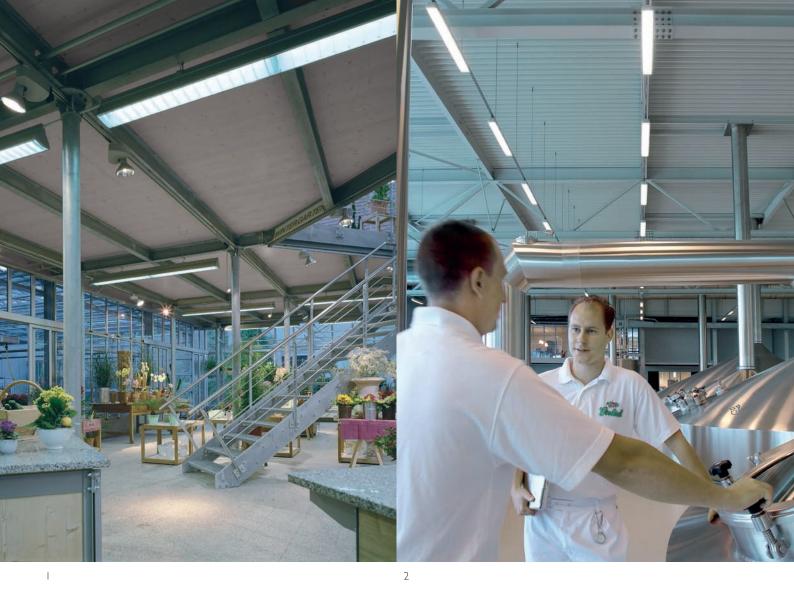


Trapeze reflector



Aluminum reflector TL-D, perforated





Main applications

l Retail

Combining attractive design and compact dimensions with outstanding light output and distribution, Maxos is ideally suited to retail applications – e.g. food, non-food and fashion stores. The combination of TL5 lamps and aluminum reflectors, for example, delivers exactly the right amount of light precisely where it is needed. Maxos also offers extensive options to integrate projectors/spots, as well as flexibility in positioning of electrical units and spots (bus bar system). The light-line system is available in both silver and white, ensuring a perfect match with the store interior.

2Industry

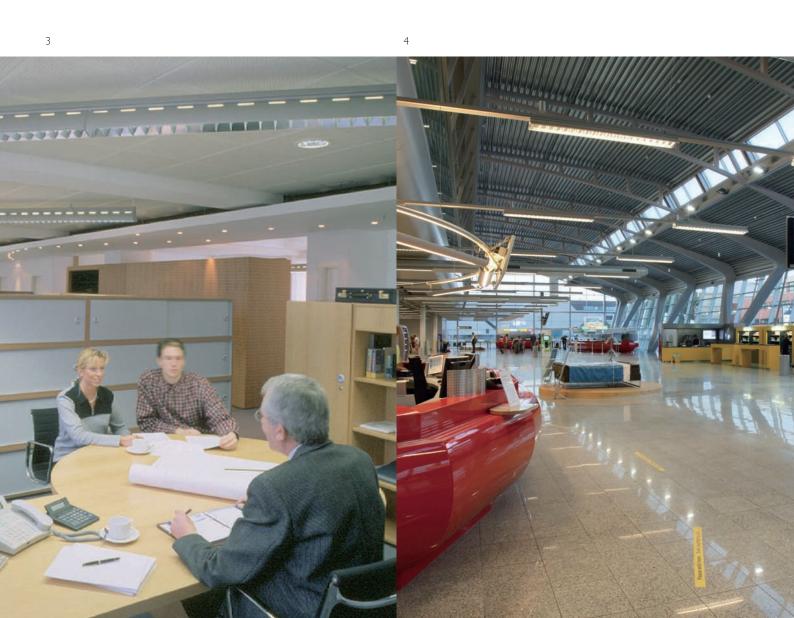
The Maxos light-line system helps to boost operating efficiency and safety in industrial facilities by delivering high lighting levels with low glare, while at the same time reducing energy consumption and maintenance. Dedicated TL-D aluminum reflectors are available for each application. Maxos has IP64 protection options across the system. A dedicated IP63 reflector unit – the outside of which can be cleaned – has been developed for the automotive and food industries. Maxos is also available in versions with up to 14 wires; this allows, among other things, zones for separate switching and emergency lighting with cabling separated from the standard mains.

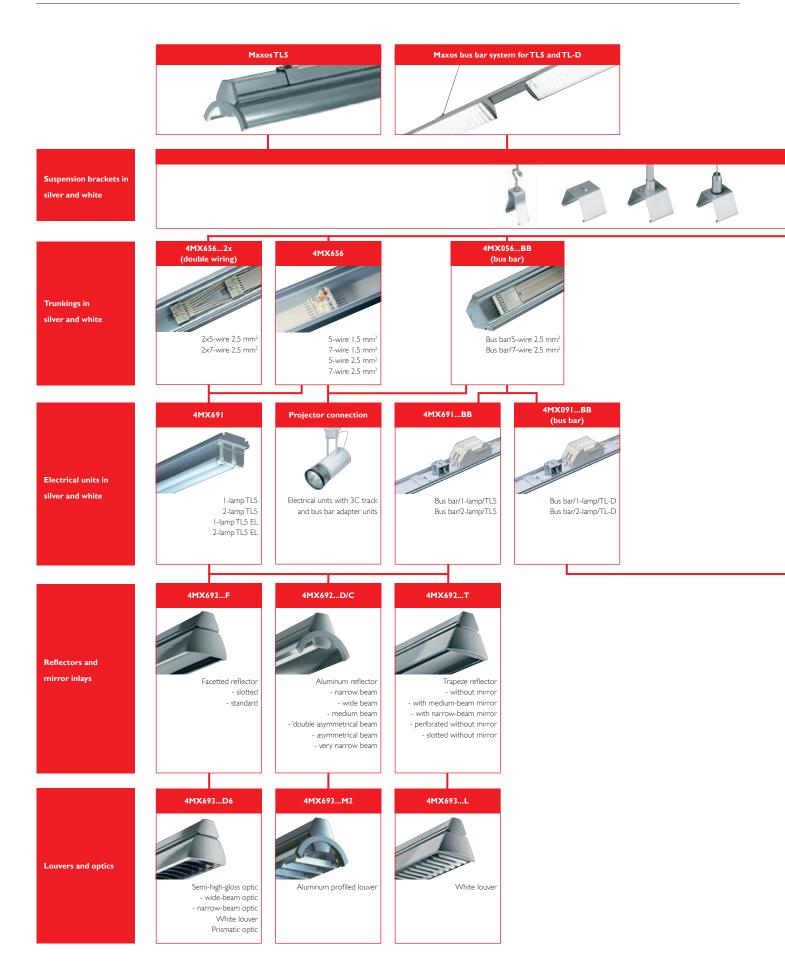
3Offices

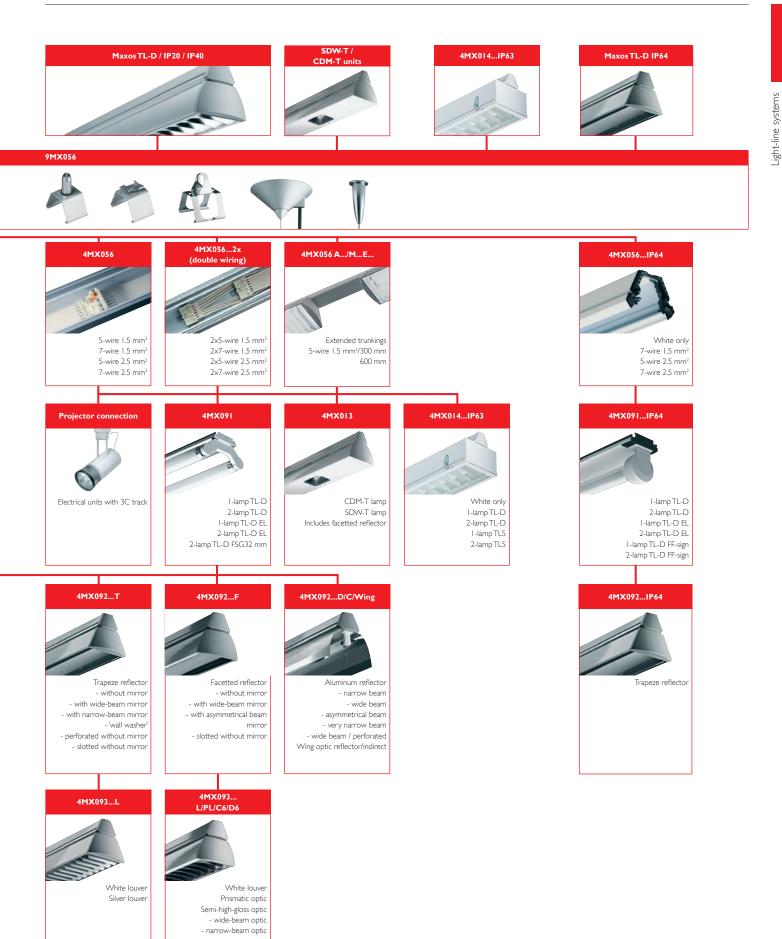
In office environments, the Maxos light-line system delivers high lighting levels, combined with low glare, for example by means of TL5 lamps in combination with OLC semi-high-gloss highquality aluminum optics with 3D lamellae (D6). This creates a bright, stimulating ambience that minimizes visual fatigue and improves productivity.

4Public spaces

Maxos' appealing design aesthetic and system flexibility makes it eminently suited to a host of applications in public spaces.







Fast and smooth installation

Maxos can be quickly and easily set up by installers of all ability levels, thanks to its clearly definable components and simple click together assembly.



A variety of suspension brackets can be clicked into place along the trunking groove.



The two trunkings are connected via a sturdy coupler. Then the prewired 5- or 7-pole electrical connections can be manually connected.



The gear units are secured in the trunking via a two-way turnable clip, simply click them into place. The locks are made of steel.



Reflectors are fitted onto the same mounting points as the gear units.



Louvers and optics can be easily put in place, enabling easy relamping.



Maxos aluminum reflectors and optics

The aluminum reflectors for TL5 and TL-D lamps are optimized for applications in supermarkets, shops, distribution centers and industry. They are made of high-quality aluminum and are available for electrical units holding I or 2 TL5 or TL-D lamps. A semi-high-gloss (D) aluminum reflector is available for wide-beam, medium-beam, narrow-beam, asymmetrical beam and (double-) asymmetrical-beam light distributions. For very narrow beams a high-gloss (C) aluminum reflector is available. For TL-D, a perforated decorative high-gloss aluminum reflector in wide beam can be ordered.

TL5 aluminum reflectors can be equipped with aluminum louvers with profiled lamellae (M2) or with a simple white steel louver (L) for glare reduction.

All the reflectors are fixed to the electrical unit via a simple click. They can be connected to each other in a line by means of an overlap; for the TL5 versions, additional coupling pieces (9MX056 CP/TL5) are available as an option. Also for the TL5 versions, decorative end-plates for the beginning and end of the light-line are available as accessories.

	Maxos TL5		Maxos TL-D
	Aluminum reflectors and optics		Aluminum reflectors
Туре	4MX692 (TL5 reflector)	Туре	4MX092
	4MX693 (TL5 louver/optic)	Suitable electrical unit	For 1 and 2 TL-D 36 and 58 W* versions
Suitable electrical unit	For I and 2TL5 35, 49, 54 and 80 W versions	Material and light	Semi-high gloss aluminum (D), narrow beam (-NB),
Material and light	Reflector:	distribution	I - and 2-lamp
distribution	Semi-high gloss aluminum (D), narrow beam		Semi-high gloss aluminum (D), wide beam (-WB),
	(-NB)		I - and 2-lamp
	Semi-high gloss aluminum (D), medium beam		Semi-high gloss aluminum (D), asymmetrical beam
	(-MB)		(-A), I - and 2-lamp
	Semi-high gloss aluminum (D), wide beam		High gloss aluminum (C), very narrow beam (-NB),
	(-WB)		I-lamp
	Semi-high gloss aluminum (D), asymmetric beam		High gloss aluminum, perforated (CP), wide beam
	(-A)		(-WB), I-lamp
	Semi-high gloss aluminum (D), double	Remarks	*2-lamp versions of aluminum reflectors to
	asymmetric beam (-DA)		be used with dedicated electrical unit (with
	High gloss aluminum (C), very narrow beam		lampholder F32 mm)
	(-NB)	Main applications	Industry, logistics, retail
	Louver:		
	Aluminum with profiled lamelae (M2)		
	Steel, white coated (L-D WH)		
Accessory	Aluminum reflector end caps (9MX056 EP/TL5 SI		
	/WH)*, coupling pieces (9MX056 CP/TL5) *not		
	for C-NB reflector		
Remarks	Optics and louvers are suitable for 1- and 2 lamp		
	versions		
Main applications	Retail (e.g. food, fashion)		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

TL5



Maxos 4MX692TL5 aluminum reflector with semi-high-gloss mirror, available for narrow-, medium-, wide-beam, asymmetrical and double asymmetrical light distribution (D-NB/ D-MB/D-WB/D-A/D-DA)

TL-D



Maxos 4MX092 TL-D aluminum reflector for I-lamp electrical unit with a semi-high-gloss mirror for narrow or wide-beam light distribution (D-NB/D-WB) or a high-gloss mirror for narrowbeam light distribution (C-NB)



Maxos 4MX692 TL5 aluminum reflector with high-gloss mirror for very narrow-beam light distribution



Maxos 4MX092TL-D perforated aluminum reflector for wide-beam light distribution and upward lighting



Maxos 4MX692 TL5 aluminum reflector for narrow, medium, wide, asymmetrical or double-asymmetricalbeam light distribution, with aluminum optic with profiled lamellae (4MX693 M2) or white lamellae louver (4MX693 L-D)



Maxos 4MX092TL-D aluminum reflector for 2-lamps electrical units with 32 mm lamp holder (F32) Light-line systems

Maxos facetted reflectors and optics

Facetted reflectors for TL5 and TL-D give shops and offices a high-class appearance.

They are made of steel, with a white or silver coating, and are available for electrical units holding I or 2 TL5 or TL-D lamps.

The facetted reflector can be integrated with a semi-high-gloss (D6) OLC optic of high-quality aluminum. This optic has parabolic side reflectors and parabolic lamellae, and it can create either a medium beam (with an integrated white top reflector) or a narrow beam (with an integrated mirror top reflector). Moreover, a prismatic acrylic cover (P) and a white steel louver (L-F) are also available.

End-plates for the beginning and end of the light-line are available as accessories.

	Maxos TL5		Maxos TL-D	
	Facetted reflectors and optics		Facetted reflectors and optics	
Туре	4MX692 (TL5 reflector)	Туре	4MX092 (TL-D reflector)	
	4MX693 (TL5 louver/optic)		4MX093 (TL-D louver/optic)	
Suitable electrical unit	For 1 and 2 TL5 35, 49, 54 and 80 W versions	Suitable electrical unit	For I and 2 TL-D 36 and 58 W* versions	
Material and light	Reflector:	Material and light	Reflector:	
distribution	Steel, facetted (F) in white (WH) or silver (SI)	distribution	Steel, facetted (F)	
	Reflector option:		Steel, facetted (F) with high gloss aluminum	
	Steel, facetted (F) with high-gloss aluminum		mirror, wide beam (-WB)	
	mirror, wide beam (-WB)		Steel, facetted (F), with high gloss aluminum	
	Steel, facetted (F) with high-gloss aluminum		mirror, asymmetrical beam (-A)	
	mirror, asymmetrical beam (-A)		Reflector option: Steel, facetted (F) with symmetrical beam, direc	
	Optic:			
	Semi-high gloss, high-quality aluminum, (D6),		indirect (F-S-D/I)	
	wide beam (-WB)		Louver:	
	Semi-high gloss, high-quality aluminum, (D6),		Semi-high gloss, high-quality aluminum, (D6),	
	narrow beam (-NB)		wide beam (-WB)	
	Cover:		Semi-high gloss, high-quality aluminum, (D6),	
	PMMA prismatic cover (P)		narrow beam (-NB)	
	Louver:		PMMA prismatic cover (P)	
	Steel lamellae, white (L-FWH)		Steel lamellae, white (L-FWH)	
Installation	Click-in fixation on electrical unit	Installation	Click-in fixation on electrical unit	
Accessory	Facetted reflector end caps (9MX056 EP-FWH/	Accessory	Facetted reflector end caps (9MX056 EP-F WH/	
	SI), facetted reflector coupling pieces (9MX056		SI), facetted reflector coupling pieces (9MX056	
	CP-FWH/SI)		CP-F WH/SI)	
Remarks	Reflectors and optics are suitable for 1- and 2	Remarks	*2-lamp versions of facetted reflectors to be used	
	lamp versions		with dedicated electrical unit (with lampholder	
Main applications	Offices, schools, cash areas in shops	-	F32 mm)	
		-	Reflectors and optics are suitable for I- and 2-	
			lamp versions	
		Main applications	Offices, schools, cash areas in shops	

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reflector, also for wide or asymmetric-

beam light distribution (F/F-WB/F-A)

Maxos 4MX092TL-D facetted



Maxos 4MX692 TL5 slotted facetted reflector with direct/indirect light distribution (F-S-D/I); a version for emergency lighting is also available (F-S-D/I-EL)

Maxos 4MX692 TL5 facetted reflector,

also for wide or asymmetric-beam light

distribution (F/F-WB/F-A)



TL-D

Maxos 4MX092 TL-D slotted facetted reflector with direct/indirect light distribution (F-S-D/I); a version for emergency lighting is also available (F-S-D/I-EL)



Maxos 4MX692 TL5 facetted reflector, for wide or asymmetric-beam light distribution with OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (4MX693 D6)



Maxos 4MX092TL-D facetted reflector, for wide or asymmetric-beam light distribution, with OLC semi-highgloss high-quality aluminum optic with 3D lamellae (4MX093 D6)



Maxos 4MX692 TL5 facetted reflector with prismatic refractor (4MX693 P)



Maxos 4MX092TL-D facetted reflector with prismatic refractor (4MX093 P)



Maxos 4MX692 TL5 aluminum reflector with semi-high-gloss mirror for narrow, medium, wide, asymmetrical or double-asymmetrical-beam light distribution, with lamellae louver for facetted reflector (4MX693 L-F)



Maxos 4MX092TL-D facetted reflector, for narrow or wide-beam light distribution, with a lamellae louver for facetted reflector (4MX093 L)

TL5

Philips indoor luminaires

Maxos trapeze reflectors and optics

The sturdy trapeze reflectors for TL5 and TL-D are designed primarily for applications in industry, supermarkets and shops. They are made of steel with a white or silver outer finish. The reflectors are optimized for electrical units holding I or 2 TL5/TL-D lamps and provide an excellent light output ratio.

There are basic trapeze reflectors without an additional mirror inlay and trapeze reflectors with dedicated aluminum mirror inlays. These are designed for wide-beam, narrow-beam and asymmetrical wallwashing light distributions. Moreover, perforated and slotted trapeze reflectors (without mirror inlays) can be ordered for design reasons or to create an indirect uplighting effect. For glare reduction, the trapeze reflector can be equipped with a steel louver.

Emergency lighting, for TL-D only

If emergency lighting by means of separately connected orientation light units (E27-sockets) is required, special trapeze reflectors with a bigger cut-off must be used. The length of this reflector corresponds to that of the 58 W trunking length. A 36 W electrical unit plus the orientation light unit will fill this length.

	Maxos TL5		Maxos TL-D
	Trapeze reflectors and optics		Trapeze reflectors and optics
Туре	4MX692 (TL5 reflector)	Туре	4MX092 (TL-D reflector)
	4MX693 (TL5 louver/optic)		4MX093 (TL-D louver/optic)
Suitable electrical unit	For I- and 2 TL5 49, 54 and 80 W versions	Suitable electrical unit	For 1 and 2 TL-D 36 and 58 W versions
Material and light	Reflector:	Material and light	Reflector:
distribution	Steel, trapeze (T)	distribution	Steel, trapeze (T)
	Steel, trapeze (T) with high gloss aluminum		Steel, trapeze (T), with high gloss aluminum
	mirror, medium beam (-MB)		mirror, wide beam (-WB)
	Steel, trapeze (T) with high gloss aluminum		Steel, trapeze (T), with high gloss aluminum
	mirror, narrow beam (-NB)		mirror, narrow beam (-NB)
	Reflector option:		Steel, trapeze (T), with high gloss aluminum
	Slotted, direct/indirect (T-S-D/I) or perforated		mirror, asymmetrical half reflector (-A)*
	(T-P)		Steel, trapeze (T), with high gloss aluminum
	Louver:		mirror, asymmetrical wallwasher (TI-A)*
	Steel lamellae, white (L-T WH)		Reflector option:
Installation	Click-in fixation on electrical unit		Slotted, direct/indirect (T-S-D/I) or perforated
Accessory	Trapeze reflector end caps (9MX056 EPI-T WH/		(T-P)
	SI)		Optic and louver:
Remarks	Reflectors and optics are suitable for 1- and 2-		Steel lamellae, white (L-TWH) or silver (L-T SI)
	lamp versions	Installation	Click-in fixation on electrical unit
Main applications	Retail and general industry	Accessory	Trapeze reflector end caps 1 and 2-lamp version
			(9MX056 EPI-T WH/SI, 9MX056 EP2-T WH/SI)
		Remarks	* For 1-lamp version only
			Dedicated reflectors for 1- and 2-lamp TL-D
			versions
		Main applications	Retail and general industry

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

Light-line systems



TL5

Maxos 4MX692 TL5 trapeze reflector, also for narrow or wide-beam light distribution (T/T-NB/T-WB)





Maxos 4MX092TL-D perforated trapeze reflector

Ma> trap

Maxos 4MX692TL5 perforated trapeze reflector (T-P)

Maxos 4MX692 TL5 trapeze reflector, for narrow or wide-beam light distribution, with a lamellae louver for

trapeze reflector (4MX693 L-T)



Maxos 4MX092 TL-D trapeze reflector, for narrow or wide-beam light distribution, with lamellae louver for trapeze reflector (4MX093 L-T)

Maxos 4MX092 TL-D trapeze reflector, also for narrow or wide-beam light distribution (T/T-NB/T-WB)



Maxos 4MX692 TL5 slotted trapeze reflector (T-S-D/I)



Maxos 4MX092 TL-D trapeze reflector, also for narrow or wide-beam light distribution (T/T-NB/T-WB)

Maxos, 4MX092 TL-D asymmetrical

trapeze reflector





Philips indoor luminaires

Maxos TL-D Wing optic

The Wing optic is a reflector solution creating soft indirect light, without glare, and is ideal for office and shop applications. Designed for electrical units holding I or 2 TL-D lamps, it is made of white powder-coated steel and a perforated curved sheet conceals the lamps. The 2-lamp version must be used with special electrical units (lamp holder F32 mm). TL5 solutions are available on request.

The Wing optic is fixed to the electrical unit via a simple click-in. The reflectors can be connected to each other without additional coupling pieces, as they are delivered with an integrated connection side at one end of the reflector. Decorative end-plates for the beginning and end of the light-line are available as accessories.

	Maxos TL-D		
	Wing optic		
Туре	4MX092 WG	Accessory	End plates (9MX056 EP-WG)
Suitable electrical unit	For I and 2TL-D 36 and 58 W* versions	Remarks	*2-lamp versions of the Wing optic to be used
Material	Steel, white coated (WH)		with dedicated electrical unit (with lampholder
Installation	Click-in fixation on electrical unit		F32 mm)
		Main applications	shops, offices

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



4MX092 WG Wing optic



Maxos electrical units

The electrical units for Maxos trunking sections can hold I or 2 TL5 or TL-D lamps and are designed for quick and reliable click-in mounting. They are made of steel with a white or silver coating.

The electrical units can be equipped with HFP electronic ballasts, HFR dimming ballasts (allowing light output of a TLD-lamp to be regulated from 3 to 100%), HF-DALI ballasts or low-loss conventional ballasts. HFR and HF-DALI units must be mounted to 7-wire trunking sections. The conventional ballasts are available parallel compensated (IC) or inductive (I).

Special electrical units equipped with an emergency battery pack for I or 3 hours (ELI/EL3) are available. These units must be used with 7-wire trunking sections. If trunkings with double wiring are used, one flat ribbon cable will be connected to the central battery. This provides a completely separate emergency lighting circuit.

Some 2-lamp TL-D reflectors need dedicated electrical units (F32) with a short distance between the lamps. On request, the TL-D electrical units can be upgraded from IP20 to IP40 with an IP40 set that is available as an accessory.

	Maxos TL5		Maxos TL-D
	Electrical units		Electrical units
Туре	4MX691	Туре	4MX091
Lamp	Fluorescent:	Lamp	Fluorescent:
	I × or 2 × MASTER TL5 / G5 / 35, 54, 49, 80 W		I × or 2 × MASTER TL-D / G I 3 / 36, 58 W
Gear	Electronic, 220 - 240 V / 50 - 60 Hz:	Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz:
	High Frequency Performer (HFP)		Inductive, parallel compensated (IC)
	High Frequency Regulator (HFR)		Electronic, 220 - 240 V / 50 - 60 Hz:
	High Frequency Regulator, DALI (HFD)		High Frequency Performer (HFP)
Option	Emergency lighting:		High Frequency Regulator (HFR)
	I hour (ELI)		High Frequency Basic (HF-Dali)
	3 hours (EL3)	Option	Emergency lighting:
Material	Sheet steel in white (WH) or silver (SI)		I hour (ELI), 3 hours (EL3)
Installation	Click-in fixation (mechanical and electrical) on		2-lamp lampholder of 32 mm (F32) to be used in
	trunking		facetted and aluminum reflectors, standard is 115
			mm
			Master/slave unit: pair of electrical units one with
			gear (M) one without gear (S)
		Material	Sheet steel in white (WH) or silver (SI)
		Installation	Click-in fixation (mechanical and electrical) on
			trunking
		Remarks	Dedicated IP40 sets for upgrading from IP20 to
			IP40

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

TL5



Maxos 4MX691 TL5 1-lamp electrical unit



Maxos 4MX091TL-D 1-lamp electrical unit

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Maxos 4MX691 TL5 2-lamp electrical unit



Maxos 4MX091 TL-D 2-lamp electrical unit



Maxos 4MX091 TL-D 2-lamp electrical unit; 32 mm lamp holders (F32) enable smaller solutins using 1/2-lamp reflectors.



Maxos standard trunking

The trunking fulfils two functions: first, it provides a sturdy in-line mounting rail on which to fix the electrical units, and second, it provides a housing for the electrical cables that bring power to the units. All the trunking sections are made of hot-dip galvanized steel with a white or silver finish and available in lengths of 1, 2 and 3 electrical units 36 W and 58 W.

A flat ribbon cable (5 or 7 wires) or two flat ribbon cables (2×5 or 2×7 wires) are integrated in the trunking and guarantee (in combination with an integrated phase selection switch and contact blocks) safe and correct cabling. The 7-wire cable is used to integrate light regulation or emergency lighting for those electrical units that are equipped with emergency battery packs. Double wiring (2×5 or 2×7 wires) is needed to provide a completely separate mains supply to the

electrical units. Double wiring is mostly used for emergency lighting by central emergency batteries or separate switching. Hence, no extra contact blocks or wiring are required.

For suspended light-lines, the trunking sections are connected using the integrated electrical connector and a sturdy external mechanical coupling piece (accessory). Surface-mounted light-lines use the same integrated electrical connector and an internal coupler (accessory). On the upper part of the trunking section, special knock-out openings enable cable entry wherever needed.

The trunking is available with a complete range of interchangeable components that optimize flexibility. The outstanding stability of the sections and coupling pieces allows suspension intervals of 3.4 to 5 m (TL5) / 4.8 m (TL-D).

	Maxos TL5		Maxos TL-D
	Standard trunkings		Standard trunking
Туре	4MX656	Туре	4MX056
Length	I x,2 x or 3 x length of electrical unit 49 W (491,	Length	I x, 2 x or 3 x length of electrical unit of 58 W
	492 or 493), for 80 and 35 W electrical units as		(581, 582 or 583) or 36 W (361, 362 or 363)
	well	Electrical circuit option	I x or 2 x flat ribbon cable, 5 or 7 wires:
	I x,2 x or 3 x length of electrical unit 54 W (541,		I x or 2 x 5 x I.5 or 2.5 mm² (Ix5x2.5 etc)
	542 or 543)		I × or 2 × 7 × I.5 or 2.5 mm² (I×7×2.5 etc)
Electrical circuit option	I x or 2 x flat ribbon cable, 5 or 7 wires:	Material	Hot-dip galvanized steel in white (WH) or silver
	l x or 2 x 5 x 1.5 or 2.5 mm² (1x5x2.5 etc)		(SI)
	I x or 2 x 7 x I.5 or 2.5 mm² (Ix7x2.5 etc)	Accessory	Trunking end piece and mains connection set
Material	Hot-dip galvanized steel in white (WH) or silver		(9MX056 EP SET), trunking coupling pieces etc.
	(SI)		(see chapter Maxos accessories)
Accessory	Trunking end piece, mains connection, trunking	Remarks	7-wire cable for integration of light regulation or
	coupling pieces, etc. (see chapter Maxos		emergency lighting
	accessories)		Double wiring for emergency lighting by central
Remarks	7-wire cable for integration of light regulation or		emergency batteries or separate switching
	emergency lighting		
	Double wiring for emergency lighting by central		
	emergency batteries or separate switching		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

Light-line systems

TL5/TL-D



Maxos 4MX656TL5 and 4MX056TL-D standard trunking section with 5-wire flat ribbon cable (5×1.5/5×2.5)



Maxos 4MX656TL5 and 4MX056TL-D standard trunking section with 7-wire flat ribbon cable (7x1.5/7x2.5); for dimming (1-10V), DALI or emergency lighting with local battery



Maxos 4MX656TL5 and 4MX056TL-D standard trunking section with two 5-wire flat ribbon cables (2x5x1.5/2x5x2.5); to create different zones in an application or use central emergency systems



Maxos 4MX656TL5 and 4MX056TL-D standard trunking section with two 7-wire flat ribbon cables (2x7x1.5/2x7x2.5); to create different lighting zones with dimming or separate emergency lighting



Maxos projectors and HID solutions

Accent lighting is part of the integral concept of Maxos. The lightlines can be equipped with almost the full range of different projectors next to all the reflector solutions based on TL5 and TL-D fluorescent lamps. Often in specific areas of shops projectors are requested in addition to fluorescent general lighting.

For Maxos trunkings with flat ribbon cable (5 \times 2.5, 7 \times 2.5), units with integrated 3C-rail are available. These units can be clicked into the trunking sections like a regular electrical unit.

Projectors with a 3C adapter can be fixed to the system. These can be fixed to the trunking similar to a regular electrical unit. 4MX013 facetted reflector units with HID lamps are often used to illuminate fruit and vegetables in supermarkets.

The electrical components are integrated in a white-coated housing with the shape of a facetted reflector. The lengths of these units correspond to those of the 36 W trunking.

End-plates for the beginning and the end of the light-line are available as accessories.

Туре	4MX013	Туре
	Facetted reflector with HID-lamp units	
Suitable trunking unit	For trunking with flat ribbon cable (5/7 wires),	Suitable t
	length of electrical unit 36 W (361), other lengths	projector
	available on request	Length
Light source	I-lamp or 2-lamp version:	
	HID:	Projector
	I x or 2 x MASTER SDW-T / PGI2-I / 50,	Material
	100 W	Installatio
	I x or 2 x MASTERColour CDM-T / GI2 /	
	70 W	Main app
	Double lamp version:	
	I \times MASTER SDW-T / PG12-1 / 50 W and 1 \times	
	MASTERColour CDM-T / G12 / 35 W	
	I x MASTER SDW-T / PG12-1 / 100 W and 1 x	
	MASTERColour CDM-T / G12 / 70 W	
Gear	Electro magnetic (low loss), 230 V / 50 Hz:	
	Parallel compensated (IC)	
Material	Steel, white-coated, shape of a facetted reflector	
	(F)	
Installation	Turning bolt fixation (mechanical and electrical) on	
	trunking	
Accessory	Decorative end-plates	
Main applications	Retail (e.g. food, fashion)	

Туре	4MX094
	3C units for projectors
Suitable trunking and	For trunkings with flat ribbon cable (5/7 wires) to
projectors	fix projectors with 3C adapter
Length	Length of electrical unit 58 W (581) or 49 W
	(491)
Projector fixation	3-circuit power track adapter (3C)
Material	Sheet steel, white (WH) or silver (SI)
Installation	Click-in fixation (mechanical and electrical) on
	trunking
Main applications	Retail (e.g. food, fashion)

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Maxos 4MX013 HID-lamp units



Maxos 4MX094 unit with integrated 3C rail and projector with 3C adapter

Light-line systems

Maxos TL-D extended trunking

The extended trunking sections are made of hot-dip galvanized steel with a white or silver finish. They are available in lengths of 1 and 2 electrical units of 58 W. Extensions of 300 and 600 mm in the middle only (M), or in the middle and at the end of these trunking sections (ME), allow interrupted lines where the gaps between the electrical units correspond to the extended trunking length. The gaps can be filled by blind covers, available as accessories.

A flat ribbon cable (5 wires) is integrated in the trunking and guarantees (in combination with an integrated phase selection switch and contact blocks) safe and correct cabling.

For suspended light-lines, the trunking sections are connected using the integrated electrical connector and a sturdy external mechanical coupling piece (accessory). Surface-mounted light-lines use the same integrated electrical connector and an internal coupler (accessory). On the upper part of the trunking section, special knock-out openings enable cable entry wherever needed.

	Maxos TL-D			
	Extended trunking			
Туре	4MX056			
Length	I x or 2 x length of electrical unit 58 W (581 or			
	582)			
Electrical circuit option	Flat ribbon cable, 5 or 7 wires			
	Others on request			
Extention length	300 and 600 mm in the middle (M), or in the			
	middle and at the end (ME)			
Material	Hot-dip galvanized steel in white (WH) or silver			
	(SI)			
Accessory	Trunking end piece and mains connection set			
	(9MX056 EP SET), trunking coupling pieces etc.			
	(see chapter Maxos accessories)			



Maxos 4MX091 projector adapter



Maxos 4MX056 TL-D extended trunking section M300/E300/M600/ E600 and blind cover, used to close the spaces in the trunking where no electrical units are mounted; available in white or silver

	trunking. Most Philips projectors, versions with
	ceiling base plate - can be fixed by screwing the
	base plate to the projector adapter units
Main applications	Retail (e.g. food, fashion)

4MX091

600 mm

Projector adapter for Bus bar system

Sheet steel, white (WH) or silver (SI)

For trunkings with Bus bar system only, to fix

Click-in fixation (mechanical and electrical) on

specific projectors with ceiling base plate

Туре

projectors

Length

Material Installation

Suitable trunking and

Maxos TL-D IP64 trunking sections

The IP64 trunking sections are made of hot-dip galvanized steel with a white powder coating. They are available in lengths of 1, 2 and 3 electrical units 36 W and 58 W. Special seals between the sections and waterproof trunking end-pieces are used (to be ordered separately).

A flat ribbon cable (5 or 7 wires) is integrated in the trunking and guarantees (in combination with an integrated phase selection switch and contact blocks) safe and correct cabling. The 7-wire cable is used to integrate light regulation or emergency lighting for those electrical units that are equipped with emergency battery packs. Hence, no extra contact blocks or wiring need to be installed.

Maxos TL-D IP64 Trunking For suspended light-lines, the trunking sections are connected using the integrated electrical connector and a sturdy external mechanical coupling piece (accessory). Surface-mounted light-lines use the same integrated electrical connector and an internal coupler (accessory). On the upper part of the trunking section, special knock-out openings

enable cable entry wherever needed. The IP64 trunking can be equipped with special IP64 electrical units

and different reflectors.

The outstanding stability of the sections and coupling pieces allows suspension intervals of 3.4 to 4.8 m.

	(to be used with IP64 electrical unit only)		
Туре	4MX056	Material	Hot-dip galvanized steel, coated white (WH)
Length	I x, 2 x and 3 x length of electrical unit 36 and	Accessory	Trunking end pieces and mains connection set
	58 W		(9MX056 EP IP64 SET), gasket between trunkings
Wiring (1.5 or 2.5 mm ²)	Standard 5 pole (5×1.5 or 2.5)	_	(9MX056 GK IP64), blind cover (9MX056
	Standard 7 pole for dimming (7×1.5 or 2.5)		BC36/58 IP64), PC procetion tube
Option	Double wiring (for additional functionality)	Remarks	Not for permanent wet conditions, corrosion
		_	possible over time

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Maxos 4MX056TL-D IP64 trunking section



Two trunking end caps including I electrical connector



Blind cover IP64, white



Gasket between trunking sections

Maxos TL-D IP64 electrical units

The IP64 electrical units are designed for quick and reliable mounting in Maxos IP64 trunking sections. They are made of steel with a white powder finish.

The high IP classification is possible due to special seals between the trunking sections and to lamp holders with gasketted screw rings on the IP64 electrical units. Maxos IP by is not designed for applications in regular humid environments.

A connector block is mounted for electrical connection to the trunking. The electrical units are equipped with electronic ballasts (including dimmable and DALI) or low-loss conventional ballasts. The conventional ballasts are available as parallel compensated (IC) or

Maxos TL-D IP64 Electrical units inductive (I). The units can hold I or 2 TL-D lamps. Dimmable versions are delivered with HF-R electronic ballast, allowing the light output of the TL-D lamps to be regulated from 3 to 100%. HF-R and HF-DALI units must be mounted to 7-wire trunking sections.

The electrical units can be combined with dedicated IP64 trapeze reflectors and a selection of aluminum reflectors. These aluminum reflectors offer a choice of narrow-beam, asymmetrical-beam and very-narrow-beam light distributions for 1×58 W. Units which comply with the FF rules (limited surface temperature) are available on request. Special electrical units equipped with an emergency battery pack for 1 or 3 hours (ELI/EL3) are available. These units must be used with 7-wire trunking sections.

	(to be used with IP64 trunking only)		
Туре	4MX091	Material	Sheet steel in white (WH)
Lamp	Fluorescent:	Accessory	Protection tube
	I x or 2 x MASTERTL-D / G13 / 36,58 W	Remarks	Not for permanent wet conditions, corrosion
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz:		possible over time
	Inductive (I)		To be used with standard trapeze reflectors
	Inductive, parallel compensated (IC)		(I-lamp) or dedicated IP64 trapeze reflectors
	Electronic, 220 - 240 V / 50 - 60 Hz:		(2-lamp) or dedicated aluminum reflectors (on
	High Frequency Performer (HFP)		request)
	High Frequency Regulator (HFR)	IP 64 F/ D/	
Option	Emergency lighting:		
	I hour (ELI), 3 hours (EL3)		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Maxos 4MX091 TL-D IP64 1-lamp electrical unit



Maxos 4MX091 TL-D IP64 2-lamp electrical unit

Maxos TL-D IP63 closed reflector units

Maxos IP63 closed reflector units are ready-to-install dedicated luminaires for the Maxos trunking system. They are designed for industrial applications requiring good protection of reflectors against dust, in particular the automotive industry and food industry. The unit can be easily cleaned with a wet cloth.

The housing is made of steel with a white coating, while the cover is made of tempered glass or, optionally, polycarbonate (PC); the inner reflector is made of aluminum.

Maxos IP63 closed reflector units combine the functions of Maxos electrical units, reflectors and covers. They are designed for reliable mounting on Maxos trunking sections in TL-D lengths. A connector block is mounted on top of the units for electrical connection to the trunking. Mechanical connection is realized by means of a safe bracket with knee-lever clasp around the trunking. IP63 classification is valid

Maxos TL-D

for the complete lamp, optical and ballast compartment; however, the classification for the total system including IP20 trunking sections is IP20.

The standard range is 1-lamp and 2-lamp TL-D 58 W with HF or conventional ballast and TL5 80 W with HF ballast, all to be mounted on the TL-D Maxos trunking system, optionally with EL3 emergency lighting.

The units come with inner aluminum reflectors for wide-beam (WB) or asymmetrical-beam (A) light distribution. White louvers ($4M \times 093$ I/2 58 L-IP63-unit WH) are available as accessories.

Please note that Maxos is not designed for application in regular humid environments.

	IP63 Reflector unit		
Туре	4MX014	Material	Housing: steel, white coated
Lamp	Fluorescent:		Cover: tempered glass (GT) or polycarbonate
	I x or 2 x MASTERTL-D / GI3 / 58 W or Ix		(PC) (optional)
	or 2x TL5 80 W	Accessory	Steel, white inlay louver (4MX093 1/2/58 L-IP63-
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz:		unit WH)
	Inductive, parallel compensated (IC)	Remarks	The electrical connection to the trunking is realized
	Electronic, 220 - 240 V / 50 - 60 Hz:		via a pre-mounted connector block, the mechanical
	High Frequency Performer (HFP)		connection via a bracket with knee-lever clasp
Reflector	Wide beam (-WB)		around the trunking
	Asymmetric (-A)		IP63 for optical compartment inclusive lamp- and
Option	Emergency lighting: 3 hours (EL3)		ballast compartment only, can be used with regular
			IP20 flat ribbon trunkings
		Main applications	Industry: automotive and food (cleanable front
			screen)

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Maxos 4MX014 IP63 closed reflector unit



Maxos 4MX014 IP63 closed reflector unit with louver



Maxos

Accessories



Bracket for direct ceiling mounting; available in white or silver



Chain bracket, adjustable; white or silver



Chain bracket, fixed; white, silver or galvanized



Profile bracket for exposed T-profiles; available in white or silver



Mounting bracket including suspension tube, 1250 mm; available in white or silver



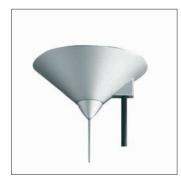
Mounting bracket for suspension wire; available in white or silver



Mounting bracket including suspension wire, 1250/3000 mm; available in white or silver (MB-SW-L1250/MB-SW-L3000)



Suspension wire, diameter 2 mm; per meter



Ceiling cover and suspension wire, 1250 mm; available in white or silver

Ceiling fixation with steel wire, I 250 mm; white, silver or zinc

Light-line systems

Accessories



Flexible coupling joint; coupling piece to connect flexible coupling joint to the trunking



Blind cover, used to close the spaces in the trunking where no electrical units are mounted; available in white or silver



End-piece set for trunking with mains supply; available in white or silver



Electrical supply connector, 7-pole; 10 pieces



Coupling piece for trunking; available in white or silver



Internal coupling piece for surfacemounted trunking



IP40 set to upgrade TL-D electrical units (I-lamp) from IP20 to IP40



IP40 set to upgrade TL-D electrical units (2-lamps) from IP20 to IP40



TTX400 – the value of lighting

Good lighting contributes to our sense of well-being. In typical industrial environments, the cost-effective TTX400 light-line system helps to increase productivity, improve quality and safety, and reduce fatigue.

The experience of lighting

The TTX400 light-line system enhances the shopping experience by ensuring a perfect light distribution in a host of design configurations, keeping the customers' attention fully focused on the merchandise.

www.philips.com/lighting

Ultra-narrow beam reflector TL5



White lamella louver for medium beam and wide beam reflectors TL5

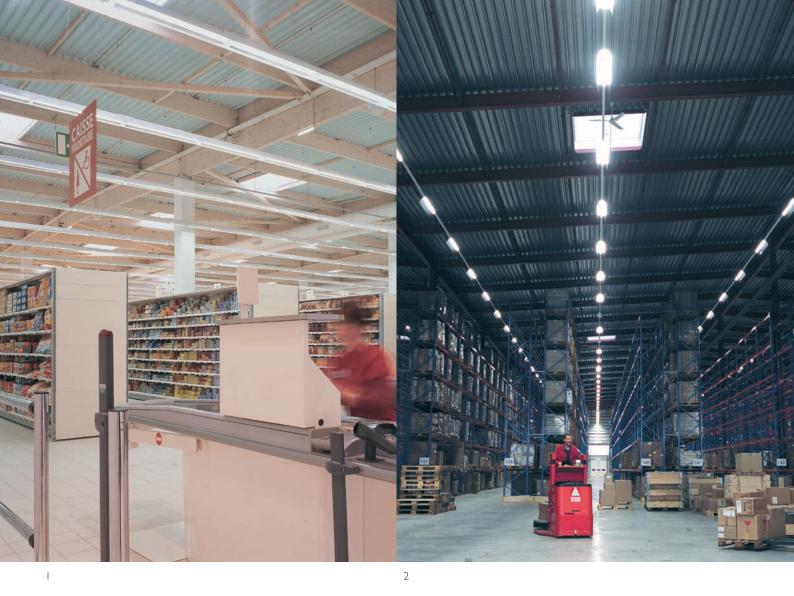


Narrow beam reflector TL-D



Multi-purpose white reflector TL-D





Main applications

l Retail

In retail outlets such as hypermarkets, the TTX400 light-line system with TL5 lamps delivers high lighting levels, focusing attention on the merchandise and creating a bright, stimulating shopping atmosphere.

2Logistics

To increase operating efficiency in logistics facilities such as distribution centers and groupage warehouses, the TTX400 light-line system delivers high horizontal illuminances in open receipt and dispatch areas and high vertical illuminances on the racks, enhancing the visibility of the whole rack, from floor to ceiling

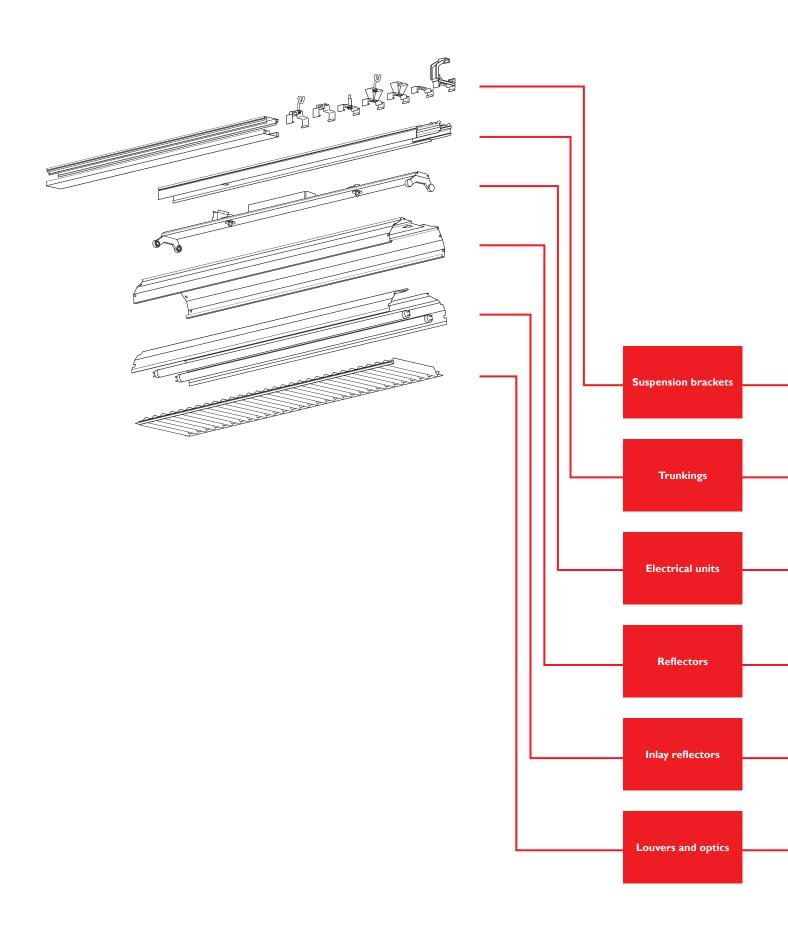
3 Industry

The TTX400 light-line system helps to boost operating efficiency in industrial facilities by delivering high lighting levels – which help workers to focus better on the task in hand and improve safety – while reducing energy consumption and maintenance.

4Public areas

In public areas, e.g. libraries, the TTX400 light-line system with TL5 lamps delivers high lighting levels, combined with low glare. This creates a bright, stimulating ambience that minimizes visual fatigue.







* see new alternative with TMX400 C-2R onto TTX400 7

Just 5 clicks

TTX400 is installed with just 5 click-in actions. No tools, no screws and no additional movements. Fast, easy and secure.



Click I

The trunking is mounted on the various suspension brackets.



Click 2

Trunkings are connected, mechanically and electrically in one movement.



Click 3 Electrical unit is mounted.



Click 4 Reflector is mounted on the electrical unit.

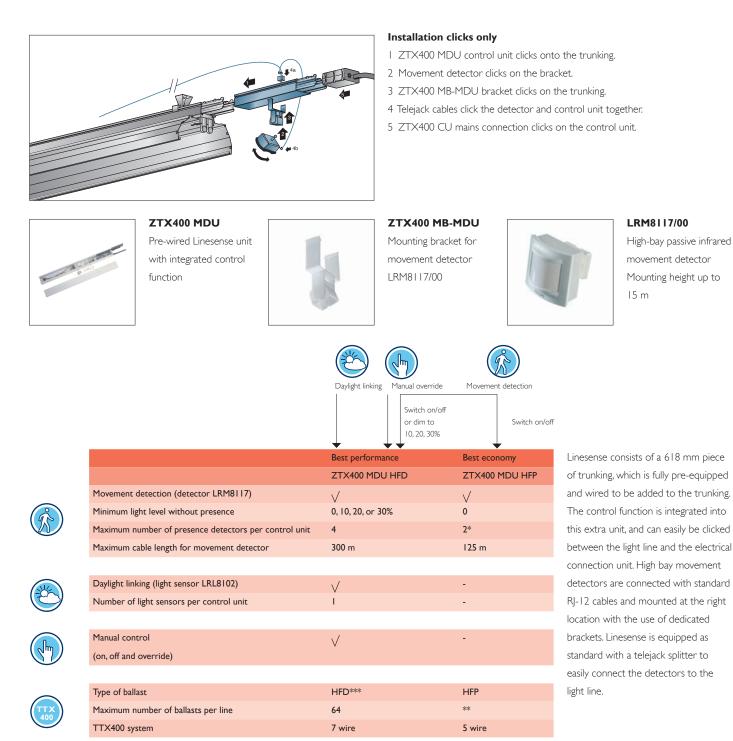


Click 5

Connection unit with the power supply is installed at the beginning of the line.

Linesense

With Linesense,TTX400 and controls are combined in one. The speed and ease of installation ofTTX400 remains when Linesense is used. In addition, substantial energy savings up to 75% can be achieved. Linesense has been developed for industrial applications like warehouses.



2 presence detectors or 3 with LED disabled

** any number of luminaires allowed by the TTX400 light line system

*** HFD=HFR-DALI

TTX400 aluminum reflectors

These aluminum one-piece reflectors for both TL5 and TL-D lamps are available in hammered, matt and glossy versions. The TL5 ones are smaller due to the smaller lamps, resulting in easier handling and less space needed. TTX400 aluminum reflectors are specially designed for applications where a wide beam, narrow beam, very narrow beam or ultra- narrow beam is required e.g. distribution centeres and warehouses. Installation is via a simple click-in action to the electrical units TMX400. The high efficiencies of these reflectors ensure a highly cost effective solution. Reflector overlapping and mechanical clips delivered with the reflectors enable proper alignment in the event of continuous lines. All aluminum reflectors are available for 49 W and 54 W lengths.

	TTX400 TL5		TTX400 TL-D
	Aluminum reflectors		Aluminum reflectors
Туре	GMX565, GMX566, GMX567, GMX570	Туре	GMX440, GMX460, GMX465, GMX466, GMX467
Suitable electrical unit	For I and 2 TL5 35/49/80 W and 54/28 W		GMX470
	versions	Suitable electrical unit	For I and/or 2TL-D 36 and 58 W versions
Material and light	GMX565:	Material and light	GMX440:
distribution	matt aluminum, narrow beam (M-NB)	distribution	matt aluminum, for general lighting, both 1- and
	high-gloss hammer-bow aluminum, narrow beam		2-lamp 36 and 58 W version*
	(HB-NB)		GMX460:
	GMX566:		high-gloss aluminum, narrow beam (C-NB),
	matt aluminum, wide beam (M-WB)		I-lamp 58 W version*
	high-gloss hammer-bow aluminum, wide beam		GMX465:
	(HB-WB)		high-gloss hammer-bow aluminum, narrow beam
	high-gloss hammer-bow aluminum, asymmetric		(HB-NB), I- and 2-lamp 58 W version*
	beam (HB-A)		matt aluminum, narrow beam (M-NB), I - and
	GMX567:		2-lamp 58 W version*
	matt aluminum, asymmetric beam (M-A)		GMX466:
	GMX570:		high-gloss hammer-bow aluminum, asymmetrical
	high-gloss aluminum, ultra narrow beam (C-NB)		(wall washer) beam (HB-A), I-lamp 58 W
	high-gloss hammer-bow aluminum, ultra narrow		version*
	beam (HB-NB)		high-gloss hammer-bow aluminum, wide beam
Installation	One click-in action to electrical unit		(HB-WB), 2-lamp 58 W version
Remarks	All reflectors are in one piece		matt aluminum, wide beam (M-WB), 2-lamp
	Reflectors are suitable for 1- and 2 lamp versions,		58 W version
	GMX566 M-WB and HB-A for 49 W version only		GMX467:
Main applications	Retail (e.g. food, fashion), industry, warehouses		matt aluminum, asymmetrical beam (M-A),
			I-lamp 36 and 58 W version*
			GMX470:
			high-gloss aluminum, very narrow beam (C-NB),
			I-lamp 58 W version*
			* Also for TMX400 electrical unit, 2-lamp version
			with F32 lampholder
		Installation	One click-in action to electrical unit
		Remarks	All reflectors are of one piece
		Main applications	Retail (e.g. food, fashion), industry, warehouses

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

Light-line systems

TL5



GMX565 one-piece narrow beam reflector made from matt aluminum



GMX565 one-piece narrow-beam reflector made of hammered aluminum (HB-NB)



GMX566 one-piece wide-beam reflector made of matt aluminum (M-WB)



GMX566 one-piece wide beam reflector made of hammered aluminum (HB-WB)



GMX566 one-piece asymmetrical reflector made of high-gloss hammered aluminum



GMX567 one-piece asymmetrical reflector made of matt aluminum (M-A)



GMX570 one-piece narrow beam reflector made of high-gloss aluminum (C-NB)



GMX570 one-piece narrow-beam reflector made of hammered aluminum (HB-NB)

TL-D



GMX440 one-piece general-lighting reflector made from matt aluminum



GMX460 one-piece narrow beam reflector made from high-gloss aluminum



GMX465 one-piece narrow beam reflector made from matt aluminum



GMX465 one-piece narrow beam reflector made from high-gloss hammered aluminum



GMX466 one-piece wide-beam reflector made from high-gloss hammered aluminum (HB-WB)



GMX466 one-piece wide-beam reflector made from matt aluminum



GMX466 one-piece wall-washer reflector made from high-gloss hammered aluminum (HB-A)



GMX467 one-piece asymmetric beam reflector made from matt aluminum



GMX470 one-piece narrow-beam reflector made from high-gloss aluminum (C-NB)



TTX400 multi-purpose reflectors

These multifunctional one-piece reflectors for TL5 and TL-D lamps are designed for applications requiring high technical lighting quality and design. They can be extended by the addition of various optics, mirrors and attachments. Installation is done via a simple click-in on the electrical units.

TTX400 TL5

	Multi-purpose reflectors
Туре	GMX555
Suitable electrical unit	For I and 2 TL5 35 / 49 / 80 W and 28 / 54 W
	versions
Material and light	Steel, pre-lacquered white, wide beam (-WB)
distribution	Steel, pre-lacquered white, medium beam (-MB)
	Steel, pre-lacquered white, perforated, medium
	beam (RP-MB)
Installation	One click-in action to electrical unit
Accessory	Coupling pieces, end plates
Remarks	All reflectors are in one piece
	Reflectors can be equipped with various optics,
	mirrors and attachments
Main applications	Retail (e.g. food, fashion), industry

	TTX400 TL-D
	Multipurpose reflectors
Туре	GMX450
Suitable electrical unit	For I and 2TL-D 36 and 58 W versions
Material and light	Steel, pre-lacquered white
distribution	Steel, pre-lacquered white, perforated (RP)
	Steel, pre-lacquered white, slotted (RS)
Installation	One click-in action to electrical unit
Accessory	Coupling pieces (white or transparent for
	perforated reflectors), end plates
Remarks	Reflectors can be equipped with various optics,
	mirror inserts and attachments
Main applications Retail (e.g. food, fashion), industry	

TTX400 TL5

	Mirror inserts	
Туре	GMX555	
Suitable reflectors	Multi-purpose reflectors GMX555 MB, 35 / 49 /	
	80 W and 28 / 54 W versions	
Material and light	High-gloss aluminum, medium beam, bi-directional,	
distribution	max at 20° (MB C-BD20 SET)	
	High-gloss aluminum, medium beam, bi-directional,	
	max at 40° (MB C-BD40 SET)	
	High-gloss aluminum, medium beam, bi-directional,	
	max at 50° (MB C-BD50 SET)	
	High-gloss aluminum, asymmetrical beam, max at	
	20° (MB C-A20 SET)	
	High-gloss aluminum, asymmetrical beam, max at	
	40° (MB C-A40 SET)	
	Semi-high-gloss aluminum, medium beam,	
	bi-directional, max at 20° (MB D-BD20 SET)	
Installation	Clicking into reflector	
Remarks	Mirror inserts delivered mounted in reflector	
	(GMX555 MB SET) or as spare parts (GGX555	
	C-BD/A as universal piece for both beams 20°	
	and 40°)	
Main applications	Retail (e.g. food, fashion)	

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



GMX555TL5 multi-purpose reflector(s) for wide beam light distribution



GMX555 TL5 multi-purpose reflector(s), for medium-beam light distribution (MB)



GMX555TL5 multi-purpose reflector(s), for medium-beam light distribution (MB) and high-gloss bidirectional optic, 20° (C-BD20)



GMX555TL5 multi-purpose reflector(s), for medium-beam light distribution (MB) and high-gloss asymmetrical optic, 20° (C-A20)



GMX555 TL5 multi-purpose reflector(s), for medium-beam light distribution (MB) and high-gloss asymmetrical optic, 40° (C-A40)



GMX555 TL5 perforated multipurpose reflector(s), for medium-beam light distribution (RP-MB)



GMX555TL5 multi-purpose reflector(s), for medium-beam light distribution (MB) and high-gloss bidirectional optic, 50° (C-BD50)



GMX555 TL5 multi-purpose reflector(s), for medium-beam light distribution (MB) and high-gloss bidirectional optic, 40° (C-BD40)

TL-D



GMX450TL-D multi-purpose reflector(s) standard version

TTX400 TL-D basic reflectors

This basic one-piece white reflector is designed for applications not requiring optics, mirrors or attachments. It is an efficient and economical solution.

Installation is done via a simple click-in on the electrical units.

TTX400 TL-D

	Basic reflectors
Туре	GMX430
Suitable electrical unit	For I and 2TL-D 36 and 58 W versions
Material and light	Steel, prelacquered white
distribution	
Installation	One click-in action to electrical unit
Accessory	Coupling pieces, end plates
Remarks	To be used when optics, mirrors and attachments
	are not needed
	Reflector is of one piece
	TMX400 F32 can be fitted with 1-lamp reflector
Main applications	Industry

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



GMX430TL-D basic reflector(s)



TTX400 louvers and optics

A wide range of different louvers and optics can be mounted in the multifunctional reflector GMX555/GMX450 for TL5 and TL-D lamps respectively. These attachments offer many possibilities to shield the lamps and therefore improve comfort. Each attachment is available in I-lamp and 2-lamp versions. Changing the lamp remains simple and quick as the attachments are hinged.

The attachments, optics and mirror inserts can only be used in combination with the respective functional reflector.

	TTX400 TL5		TTX400 TL-D
	Louvers and optics		Louvers and optics
Туре	GGX555	Туре	GGX450
Suitable reflectors	Multi-purpose reflectors GMX555, 35 / 49 / 80 W	Suitable reflectors	Multi-purpose reflectors GMX450, 36 and 58 W
	and 28 / 54 W versions		versions
Material and light	High-gloss aluminum, double parabolic, closed (C6)	Material and light	High-gloss aluminum, double parabolic, closed (C6)
distribution	High-gloss aluminum, double parabolic, closed (C6),	distribution	Semi-high-gloss aluminum, double parabolic (D6)
	with top reflector (T)		Matt aluminum, parabolic lamellae (M5)
	Matt aluminum, double parabolic louvers, closed		Matt aluminum, ribbed cross louvers (M2)
	(M6)		Lamellae louvers, white (L)
	Matt aluminum, ribbed cross louvers (M2)		Lamellae louvers, perforated, white (LP)
	Lamellae louvers, white (L)		Mesh louver, square mesh cover, white (ML)
	Universal insert, beam 20 or 40° (C-BD/A)		Prismatic cover (P)
Remarks	C6 and M6 can only be mounted in GMX555 MB	Main applications	Retail (e.g. food, fashion), industry
	L and M2 can be mounted in both GMX555 MB		
	and WB		
	Inserts can be mounted only in GMX555 MB		
Main applications	Retail (e.g. food, fashion), industry		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

TL5



GMX555 TL5 multi-purpose reflector(s) and GGX555 OLC highgloss high-quality aluminum optic with 3D lamellae louver (C6)



GMX555TL5 multi-purpose reflector(s) and GGX555 white lamella louver (L)



GMX555 TL5 multi-purpose reflector(s) and GGX555 matt highquality aluminum optic with profiled lamellae louver (M2)



GMX555TL5 multi-purpose reflector(s) and GGX555 OLC matt high-quality aluminum optic with 3D lamellae louver (M6)



GMX555 TL5 multi-purpose reflector(s) and GGX555 high-gloss bi-directional/asymmetrical optic (C-BD/A), beam 20 or 40°



GMX555TL5 multi-purpose reflector(s) and GGX555 OLC highgloss high-quality aluminum optic with 3D lamellae louver and top reflector (C6T) Light-line systems

TL-D



GMX450 TL-D multi-purpose reflector(s) and GGX450 OLC highgloss high-quality aluminum optic with 3D lamellae louver (C6)



GMX450TL-D multi-purpose reflector(s) and GGX450 standardquality aluminum profiled crosslamellae louver (M2)



GMX450TL-D multi-purpose reflector(s) and GGX450 OLC semihigh-gloss high-quality aluminum optic with 3D lamellae louver (D6)



GMX450TL-D multi-purpose reflector(s) and GGX450 white lamellae louver (L)



GMX450 TL-D multi-purpose reflector(s) and GGX450 matt standard-quality aluminum parabolic cross-lamellae louver (M5)

TTX400 TL-D mirror inserts

Mirror inserts improve the distribution of light. They are especially suitable for applications where directed beams are needed. Installing mirror inserts is as easy as all other components: they are laid into the edge profile of the multifunctional reflector (GMX450).

TTX400 offers various types of mirror insert (narrow, wide and asymmetrical beam).

	TTX400 TL-D
	Mirror inserts
Туре	GGX451, GGX452 (to be mounted in GMX450
	I-lamp version)
	GGX453, GGX454 (to be mounted in GMX450
	2-lamp version)
Suitable reflectors	Multipurpose reflectors GMX450, 36 and 58 W
	versions
Material and light	GGX451: matt aluminum, narrow beam (M-NB),
distribution	I-lamp 36 and 58 W version
	GGX452: matt aluminum, wide beam (M-WB),
	I-lamp 36 and 58 W version
	GGX453: matt aluminum, wide beam (M-WB),
	2-lamp 36 and 58 W version
	GGX454: high-gloss aluminum, bi-directional beam
	(C-BD), 2-lamp 58 W version
Installation	Clicking into reflector
Remarks	Reflector GGX451 is of one piece, other ones of
	two pieces
	Mirror inserts delivered separately
Main applications	Retail (e.g. food, fashion), industry

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



GMX450TL-D I-lamp multipurpose reflector(s) and GGX452 widebeam mirror insert made from matt aluminum (M-WB)



GMX450TL-D 2-lamps multipurpose reflector(s) and GGX453 widebeam mirror insert made from matt aluminum (M-WB)

TTX400 electrical units

These electrical units are designed for quick-click mounting in TTX400 trunking sections. They are for use with one or two TL5 or TL-D lamps, with electronic (dimming) ballast (or conventional ballast in the case of TL-D), and are available in emergency lighting versions and in versions for the mounting of projectors. They contain all the necessary electrical and mechanical functions. All components are screwed onto the electrical unit. The units can be combined with any type of reflector and are made of white sheet steel.

TMX400 is delivered with electronic ballast HFP. The dimmable version of the TMX400 is delivered with the electronic ballast HFR, allowing the light output of the TL5 lamps to be regulated from 3 to 100 %. This

TTX400 TL5

unit is ideal for (day)light-dependent control and must be mounted to the prewired TTX400 section with 7-wire ribbon cable. The TMX400 units with conventional ballasts are supplied with an electrical connector, starters, any necessary capacitor and lampholders. For more control options the TMX400 can be equipped with DALI ballasts. Especially in combination with Linesense controls DALI solutions offer even greater control and energy savings.

TMX400 is deliverable in versions with in-built 3-hour or 1-hour emergency lighting. For configuration of both emergency lighting and regulation or DALI,TTX400 9-wires is to be used with TMX400 9.The new solution of standard TTX400 7-wires with new units TMX400 C-2R is recommended.

TTX400 TL-D

35/49/80 W)

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	TIXHOUTES		
	Electrical units		Electrical units
Туре	TMX400	Туре	TMX400
Light source	Fluorescent:	Light source	Fluorescent:
	I × or 2 × MASTER TL5 / G5 / 28, 35, 49, 54,		I x or 2 x MASTER TL-D / GI3 / 36, 58 W
	80 W	Gear	Electro magnetic (low loss), 230 V / 50 Hz:
Gear	Electronic, 220 - 240 V / 50 - 60 Hz:		Inductive (I)
	High Frequency Performer (HFP)		Inductive with possible mounting of capacitor in
	High Frequency Regulator (HFR)		parallel (IKP)
	High Frequency Regulator, DALI and Touch		Inductive, parallel compensated (IC)
	(HFR-TD)		Electronic, 220 - 240 V / 50 - 60 Hz:
Option	Emergency lighting:		High Frequency Performer (HFP)
	I hour (ELI), 3 hours (EL3)		High Frequency Regulator (HFR)
	Master/Slave:		High Frequency Regulator, DALI and Touch
	I master + I slave (M/S), both master and slave		(HFR-TD)
	(M-S)	Option	Emergency lighting:
	HFR/HFR-TD with emergency lighting:TMX400 9		I hour (ELI), 3 hours (EL3)
	for trunking 9 wires or preferably TMX400 2-CR		Master/Slave:
	to be used with TTX400 7-wires (thereby in case		master + slave (M/S)
	of non-continuous lightline, to order throughwiring		both master and slave (M-S)
	ZTX400 CI 300-2 or CI 600-2 as accessory)		2-lamps lampholder with small width (F32)
Material	Sheet steel, white		HFR/HFR-TD with emergency lighting:TMX400 9
Installation	Click-in fixation (both mechanical and electrical		for trunking 9 wires or preferably TMX400 C-2R
	connection) on trunking TTX400 with 5- or 7-wire		to be used with TTX400 7-wires (thereby in case
	ribbon cable		of non-continuous lightline, to order throughwiring
Accessory	Blind covers (BC)		/ ZTX400 C1300-2 or C1600-2 as accessory)
	Throughwiring set to be used in combination	Material	Sheet steel, white
	with TMX400 C2R onto TTX400 7, in the case of	Installation	Click-in fixation (both mechanical and electrical
	non-continuous lightline (ZTX400 C1300-2 for		connection) on trunkingTTX400 with 5- or 7-wire
	I section 28/54 W; ZTX400 C1600 for I section		ribbon cable
	35/49/80 VV).	Accessory	Blind covers
⊥) IP 20			Throughwiring set to be used in combination with
			TMX400 C-2R onto TTX400 7, in the case of
にて、実			non-continuous lightline (ZTX400 C1300-2 for
			I section 28/54W; ZTX400 C1600 for 1 section

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12

I-lamp TL5 electrical unit



1







TMX400 2-lampsTL5 electrical unit



TMX400 2-lampsTL-D electrical unit



TMX400 I-lampTL-D F32 electrical unit

TTX400 trunking sections

This trunking system for TL5 and TL-D lamps comprises prewired sections (TTX400) and optional unwired sections (TTX410). The sections can be easily clicked together using the integrated electrical/ mechanical coupling pieces. The trunking is available with a complete range of interchangeable components to offer outstanding flexibility. All the trunking sections are made of white prelaquered steel. Round edges reduce the risk of injury. Flat-ribbon cable (5 or 7 wires), an integrated phase-selection switch and contact blocks with click connection make electrical and mains connection quick, simple and safe (if 3 phases are used equalised, the maximum current is 16 A). The rigidity of the sections and coupling pieces limits the number of mounting brackets needed (max. 3 meters when using 493 trunking sections). The electrical unit is simply clicked into the trunking for both mechanical and electrical connection.

The prewired section TTX400 is equipped standard with a 5- or 7-wire 2.5 or 1.5 mm² flat ribbon cable. The 7-wire flat ribbon cable is used especially for the integration of light regulation or emergency lighting functions. Hence, no extra contact blocks or wiring need to be installed. TTX400 is available in lengths of 1, 2 and 3 electrical units of TL5 28/54 W, 35/49/80 W and TL-D 36 W and 58 W. It is also available in 9 wires (7-wire flat-ribbon plus 2 additional low-voltage cables for dimming) for the integration of light regulation and emergency lighting functions. The new optimized and recommended solution, instead of TTX400 9, consists of the standard TTX400 7-wire flat-ribbon and the new electrical units TMX400 C-2R.

TTX400 is also available with a 5-wire 1.5 $\rm mm^2$ ribbon cable, in the same lengths as mentioned before; to be used in combination with HFP units.

	TTX400 TL5		TTX400 TL-D
	Standard trunkings		Standard trunkings
Туре	TTX400 (prewired)	Туре	TTX400 (prewired)
Length	I x, 2 x or 3 x length of electrical unit 49 (491, 492	Length	I x, 2 x or 3 x length of electrical unit 36 or 58 W
	or 493), also applicable for 80 and 35 W electrical		(361, 362 or 363 resp 581, 582 or 583)
	unit	Electrical circuit option	TTX400 5: I × flat ribbon cable, 5 wires, I.5 and
	I x, 2 x or 3 x length of electrical unit 54 (541, 542		2.5 mm²
	or 543), also applicable for 28 W electrical unit		5-wire: standard flat ribbon cable (5)
Electrical circuit option	TTX400 5: I × flat ribbon cable, 5 wires, I.5 and		TTX400 7: I × flat ribbon cable, 7 wires, 2.5 mm²
	2.5 mm ²		7-wire: standard flat ribbon cable (7)
	5-wire: standard flat ribbon cable (5)		TTX400 9: 9-wires
	TTX400 7: I × flat ribbon cable, 7 wires, 2.5 mm²		7-wire standard flat ribbon cable + 2 hardcore
	7-wire: standard flat ribbon cable (7)		cables 1 mm² (9)
	TTX400 9:9-wires		7-wire standard flat ribbon cable + 2 cables
	7-wire standard flat ribbon cable + 2 hardcore		I mm ² for communication purposes (9T)
	cables I mm² (9)		Alternative to TTX/TMX400 9 :TTX400 7 +
	7-wire standard flat ribbon cable + 2 cables		TMX400 C-2R
	I mm ² for communication purpose (9T)		Option:
	Alternative to TTX/TMX400 9 :TTX400 7 +		I, 2, 3 section prewired trunking with 2 circuits
	TMX400 C-2R		flat ribbon 5 wires (2C5)
	Phase selection switch and contact blocks with		I, 2, 3 section prewired trunking with 2 circuits
	click connection are integrated		flat ribbon 7 wires (2C7)
Connection	Connection box ZTX400 CU or ZTX400 CM		Phase selection switch and contact blocks with
	Trunking piece TTX400 CU7 (to be completed		click connection are integrated
	with ZTX400 EP-CU)	Connection	Connection box ZTX400 CU or ZTX400 CM
	Universal TTX400 CM-CU for cable entry at the		Trunking piece TTX400 CU7 (to be completed
	beginning of light-line or in the middle		with ZTX400 EP-CU)
Material	Steel, prelacquered white		Universal TTX400 CM-CU for cable entry at the
Accessory	Suspension/mounting brackets, external coupling		beginning of light-line or in the middle
	piece, etc, see TTX400 accessory section	Material	Steel, prelacquered white
		Accessory	Suspension/mounting brackets, external coupling
			piece, etc, see TTX400 accessory section

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.

TL5/TL-D



Pre-wired TTX400 trunking with 5wire ribbon cable



Pre-wired TTX400 trunking with 7wire ribbon cable

-ight-line systems

TTX410 (optional)

TTX410 is the unwired trunking section that allows the electrical units to be mounted in any desired position. On the upper part of the trunking section, special knock-out openings enable cable entry. The mains connection can be made with the 7-pole connector ZTX410 TC. Electrical connection to the electrical unit can be made with a 5-pole contact block with insert contacts (ZTX400 DC). These connection blocks can be installed at any place inside the trunking sections. The required wiring can be fixed inside the trunking section by using internal cable clips (ZTX410 IC). When electrical units are used with conventional or low-loss ballasts, H07GU (110 °C) cables should be used. When electronic ballasts are used, H07VU (70 °C) cables are sufficient. The TTX410 unwired trunking sections are delivered with the mechanical coupling piece. This unwired system is also well suited to mounting waterproof or surface-mounted luminaires.

TTX400 CM-CU

TTX400 491 7 CM-CU-PI is a 1-length 58 W trunking section with a 7-pole connector. It is a universal and flexible piece for mains supply entry at the beginning or middle of the light-line. It is an alternative to ZTX400 CU,TTX400 CU7 or ZTX400 CM.

	TTX400 TL-D
	Standard trunkings
Туре	TTX410 (unwired)
Length	2 × or 3 × length of electrical unit 58 W (582 or
	583)
Material	Steel, prelacquered white
Accessory	Connection units, suspension/mounting brackets,
	external coupling piece, etc, see TTX400 accessory
	section

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Unwired TTX410 trunking

TTX400 units for projectors

Increasingly, accent lighting is integrated in functional and general lighting systems, especially in applications like shops, showrooms and public buildings such as museums. The TTX400 light-line system can be equipped with different types of projector to meet these lighting needs. Thanks to its modular concept, TTX400 offers great

flexibility in the installation of projectors. For example, a change in the configuration of the shop floor lay-out can be easily followed by changing the positions of the projectors on the light-line.



Electrical unit with 2 connection points for projectors with e.g. CDM-T or SDW-T lamps. The projectors are mounted with the spot bracket on the trunking section



Electrical unit with 4 Express connection points for low-voltage halogen spots.This unit has 2 built-in 12 V / 105 W transformers



Electrical unit with an integrated 3-circuit rail. Standard projectors can be mounted in the rail. The maximum weight of the mounted projectors is 9 kg. Alternative now available with surface-mounted rail





TTX400/410 suspension-/mounting brackets

The TTX400 suspension-/mounting brackets have been designed to allow maximum ease and speed in installation and to provide the greatest possible flexibility in use. All brackets are simply clicked on the trunking. They are suitable for direct fixation or with chains, threaded rods and steel cables for suspension fixation. Distance between the brackets is up to 3 meters (when using the 583 trunking sections), resulting in faster installation and lower costs. All mounting and suspension brackets are constructed from galvanised stainless steel, painted white.

Suspension-/mounting brackets



Chain bracket cable duct for suspending the TTX400/410 sections with the plastic cable duct ZTX400 582/583 CD from chains or steel cables; includes adjustable suspension hook



Profile bracket for mounting TTX400/410 sections onto system ceilings with visible 24 mm T-profiles



Universal bracket for suspending TTX400 section including unwired section TTX410, which then serves as a cable duct



Adjustable suspension hook with 2 brass nuts for use with ZTX400 UB, ZTX400 UCD or ZTX400 CDB



Ceiling mounting bracket (8 mm diameter hole) for mounting TTX400/410 sections directly onto the ceiling



Cable suspension bracket for suspending the TTX400/410 sections from steel cable M 1.8. Integrated clasp mechanism allows easy, tool-less adjustment of the mounting height. Steel cable can be ordered separately with accessory ZTX400 SW1.8-10000



Universal bracket for suspending TTX400/410 sections with threaded rods or M13 internally threaded suspension tubes



Chain bracket for suspending TTX400/410 sections from chains or steel cables; includes adjustable suspension hook



Universal bracket for suspending TTX400/410 sections, including plastic cable duct ZTX400 CD 582/583, with threaded rods or M13 internally threaded suspension tubes

Accessories



Bracket for projectors.This bracket can be installed on TTX400 with reflector and louver, so no interruption of the continuous light-line



Connection unit consisting of a 7-pole contact block with 2.5 mm² contacts and mains connection strain-relief for use at the beginning of a light-line.The same connection unit is used for the TTX400 with either the internal 5- or 7-wire flat ribbon cable



Mounting bracket for waterproof luminaire



Mounting bracket for surface mounted luminaire



ZTX400 end caps for GMX450TL-D multi-purpose reflector(s) (EP1-450/ EP2-450)



ZTX400 coupling piece for GMX450 TL-D multi-purpose reflector(s)



ZTX400 end caps for GMX430TL-D basic reflector(s)



ZTX400 coupling piece for GMX430 TL-D basic reflector(s)



ZTX400 end caps for GMX555 TL5 multi-purpose reflector(s)



ZTX400 coupling piece for GMX555 TL5 multi-purpose reflector(s)



ZTX400 transparent coupling piece for GMX450TL-D perforated multipurpose reflector(s)



White plastic end plate to cover the trunking; includes a knock-out hole of 20 mm, Philips-branded (PHL)



Blind cover, used to close the spaces in the trunking where no electrical units are mounted. Also available in length of 36, 49 or 58 W.



ZTX400 coupling piece for GMX555 TL5 multi-purpose reflector(s)



Structure parts with fixed angles, for use with prewired TTX400 light-line. This structure part is delivered with integrated coupling piece and internal through-wiring. Can be used for X-, T- and L configurations



Cable duct, for installing on the trunking, in white plastic, with a length of 2 or 3 electrical units. Can be closed with blind cover strips. To be used in combination with the suspension brackets ZTX400 UCD/CCD. Also available in length of 49, 54 W.





Steel wire, diameter 1.8 mm², length 10 m

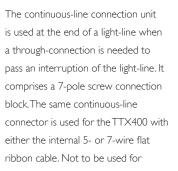


Through-wiring connector





Electrical connector for attaching waterproof and surface-mounted luminaires to the prewired trunking TTX400.This electrical connector can be clicked on the connection block as mounted standard in the TTX400 lightline (also ZTX400 DC).The electrical connector comprises insert contacts and a strain reliever



Cable clips for guiding and easy-click fixing of wires in both TTX400 and TTX410 trunking sections







A 5-pole connection block for connecting the electrical unit when using the unwired TTX410 profiles. The same connection block is used as an additional block for the prewired TTX400 when connecting to emergency lighting or light regulation. The connector is clicked inside the trunking and allows through-

The middle-of-line connection unit enables the mains connection to be made in the middle of a light-line. The unit comprises two 7-pole connection blocks for mains connection. To be used in the middle of a light-line when very long lines are used, to restart mains supply in both directions. The same middle-of-line connection unit is

TTX400 Linesense

TTX400 with Lighting Controls

Applying Lighting Controls in industry contributes to efficient and effective lighting solutions. For TTX400 applications, Philips Lighting offers various standard trunking system based controls solutions, included in the Linesense range. These solutions offer an intelligent light-line, which remains easy-to-install.

With Linesense, TTX400 and lighting controls are combined in one, creating an intelligent light-line which is still easy to install. It allows substantial energy savings of up to 75%. Developed for industrial applications like warehouses,

Linesense consists of a 618 mm section of trunking, which is fully preequipped and wired for addition to the trunking. The control function is integrated into this extra unit and can easily be clicked between the light-line and the electrical connection unit. Movement detectors are connected with standard RJ-12 cables and mounted at the right location with the use of dedicated brackets. Linesense is equipped as standard with a telejack splitter to easily connect the detectors to the light-line.



Fully assembled TTX400 Linesense unit

Accessories



ZTX400 MDU-D Linesense unit suitable for movement detection (dimming or switching off), daylight linking and manual control; works with HFR DALI ballasts





Light sensor intended for high-bay mounting (approx. 7.5 m high). Intended for use with the Linesense control (ZTX400 MDU-D). An installation bracket is included. The sensor is connected to the control unit with a modular plug-in (RJ-12) connector cable



The ZTX400 MB-MDU is a Linesense mounting bracket for clicking movement detector LRM 8115/00 or LRM 8117/00 to the trunking section. The right tilt angle can be adjusted manually and is to be checked by a walk test. The same tilt angle can be easily reproduced on more sensors thanks to a click graduation on the bracket

High-bay passive infrared movement detector (mounting height up to 15 m), equipped with an adjustable delay timer (up to 35 minutes). Can be used with all MDU control units. A dedicated mounting bracket (ZTX400 MB-MDU) is available, into which the movement detector can be clicked



TTXI50



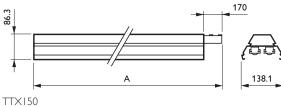
Tetrix TTX I 50 - a simple solution

Tetrix TTX150 is a compact light-line characterized by simplicity. It comes with everything in one box and installation is tool-less. Tetrix is available in 1.5 or 3 m lengths with a pre-mounted mechanical coupling and through-wiring connector, TL-D or TL5 lamps, reflector, suspension bracket and snap-on finishing pieces. A starter kit is required to start the light-line. Tetrix is supplied with a white in-laid reflector to cover most standard applications. Conventional and HF versions are available. Dedicated 1.5 m trunkings can be equipped with emergency lighting. Maintenance is carried out from below, enabling the system to be used as a surface-mounted solution. The recommended maximum installation height is 6m.

www.philips.com/lighting

	Tetrix		
Туре	TTX150	Material	Aluminum, white
Length	I x or 2 x length of 58 W (581 or 582)	Installation	Suspended; pre-mounted mechanical coupling and
Light source	Fluorescent		through-wiring connector
	I x or 2 x MASTER TL-D / GI3 / 58 W	Accessory	Reflectors for electronic and conventional gear,
Lamp included	Yes (lamp color 840)		lamellae louver, acrylic cover (1500 mm)
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz:	Remarks	Standard equipped with 5-wire, 2.5 mm² through-
	Inductive, parallel compensated (IC)		wiring
	Electronic, 220 - 240 V / 50 - 60 Hz:		Starter kit required to start the light line
	High Frequency Performer (HFP)		Suspension brackets and end caps are included in
	Electronic Included (El)		packaging
	Electronic Included, pre-heat (EI-PH)		Empty through-wiring units available (5×2.5)
Option	Lamp; fluorescent TL5	Main applications	Retail
	Separate switching of lamps in line (left/right) (DS),		
	in 2-lamp version only		
	Emergency lighting: 3 hours (EL3), in 581 versions	C E 🕷	
	Pre-wired ribbon cable, 7-wire, 2.5 mm², (7×2.5)		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



	А
2×	1530
2×2×	3060



Tetrix TTX150 light-line with TL-D fluorescent lamp(s)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TTX1505811xTL-D58WIC	4.00	124834 00
TTX I 50 582 2x2xTL-D58W IC	9.50	124940 00
TTX150 582 2x2xTL-D58W HFB	6.20	124957 00

Please contact your local Philips representative for additional configurations

Accessories



Starter kit containing suspension bracket, electrical connector and end caps

Product ID EOC ZTX150 MB-EC-2xEP 124445 99



Starter kit containing suspension bracket, electrical connector (separate switching functionality) and end caps

Product ID	EOC
ZTX150 MB-2xEP EC-DS	125350 99

